



Aalborg Universitet

AALBORG UNIVERSITY
DENMARK

Toward Intrinsic Damage Resistance and Ductility in Oxide Glasses

Vittorio Gottardi Award Lecture

Smedskjær, Morten Matstrup

Publication date:
2019

[Link to publication from Aalborg University](#)

Citation for published version (APA):

Smedskjær, M. M. (2019). *Toward Intrinsic Damage Resistance and Ductility in Oxide Glasses: Vittorio Gottardi Award Lecture*. 9. Abstract from 25th International Congress on Glass, Boston, Massachusetts, United States.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal -

Take down policy

If you believe that this document breaches copyright please contact us at vbn@aub.aau.dk providing details, and we will remove access to the work immediately and investigate your claim.

Toward intrinsic damage resistance and ductility in oxide glasses

Morten M. Smedskjaer, Department of Chemistry and Bioscience, Aalborg University, Denmark

Oxide glasses are among the most important engineering and functional material families owing to their unique features, such as tailorable physical properties. However, at the same time their brittleness has been their main drawback, which severely restricts many applications. Despite much progress, a breakthrough in developing oxide glasses with intrinsic damage resistance and ductility still needs to be made. In this talk, we discuss recent advances and challenges in designing new damage resistant, and potentially tough, oxide glass compositions.